

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
2 October 2003 (02.10.2003)

PCT

(10) International Publication Number  
WO 03/081742 A1

(51) International Patent Classification<sup>7</sup>: H02H 9/04

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(21) International Application Number: PCT/RU02/00113

(22) International Filing Date: 22 March 2002 (22.03.2002)

(25) Filing Language: English

(26) Publication Language: English

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(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

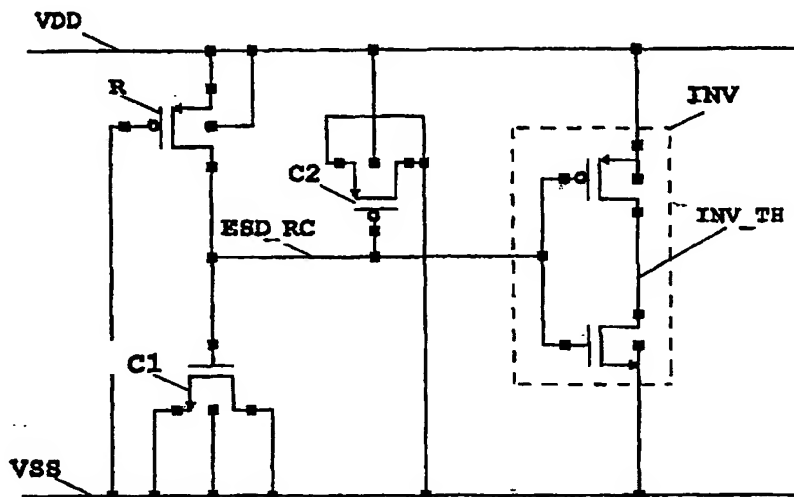
Published:

— with international search report

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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: CIRCUIT FOR ELECTROSTATIC DISCHARGE PROTECTION



(57) Abstract: A circuit providing protection against electrostatic discharge (ESD) for internal elements of an Integrated Circuit (IC) is connected to a power rail (VDD) and a ground rail (VSS) and to an inverter (INV) of a clamp preamplifier. The protection circuit comprises a PMOSFET resistor (R) with a gate connected to said ground rail (VSS), a drain connected to said inverter's (INV) input node (ESD\_RC), a source and a bulk connected to said power rail (VDD). The circuit also comprises an NMOSFET capacitor (C1) with a gate connected to said inverter's (INV) input node (ESD\_RC), a drain, a source and a bulk connected to said ground rail (VSS), and a PMOSFET connector (C2) with a gate connected to said inverter's (INV) input node (ESD\_RC), a drain, a source connected to said ground rail (VSS) and a bulk connected to said power rail (VDD).

WO 03/081742 A1

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/RU 02/00113

A. CLASSIFICATION OF SUBJECT MATTER **7** H02H 9/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) **7**

H02H 9/00, 9/04, H01L 23/00, 23/58, 23/60, 23/62, H01L 27/00, 27/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5946177 A (MOTOROLA, INC.) Aug. 31, 1999	1-6
A	EP 0697757 A1 (UNITED MEMORIES, INC.) 21.02.1996	1-6
A	US 5559659 A (LUCENT TECHNOLOGIES INC.) Sep. 24, 1996	1-6
A	RU 2071161 C1 (REYKEM LIMITED) 1996.12.27	1-6
A	SU 1705947 A1 (NAUCHNO-PROIZVODSTVENNOE OBEDINENIE "DALNYA CBYAZ") 15.01.1992	1-6

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Date of the actual completion of the international search

**19 November 2002 (19.11.02)**

Date of mailing of the international search report

**28 November 2002 (28.11.02)**

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Authorized officer

Facsimile No.

Telephone No.

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PCT/RU 02/00113

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Date of the actual completion of the international search report  
19 November 2002 (19.11.2002)

Date of mailing of the international search report  
28 November 2002 (28.11.2002)

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